



## SEQUENCE LISTING

<110> May, Michael J  
Ghosh, Sankar  
Findeis, Mark A  
Phillips, Kathryn  
Hannig, Gerhard

<120> ANTI-INFLAMMATORY COMPOUNDS AND USES THEREOF

<130> YAI-002

<140> 09/847,946

<141> 2001-05-02

<150> 60/201,261

<151> 2000-05-02

<150> 09/643,260

<151> 2000-08-22

<160> 171

<170> PatentIn Ver. 2.0

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&lt;210&gt; 43

&lt;211&gt; 12

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence:NEMO binding  
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Arg Arg Met Lys Trp Lys Lys Leu Asp Trp Ser Trp  
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&lt;210&gt; 44

&lt;211&gt; 6

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence:NEMO binding  
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&lt;210&gt; 45

&lt;211&gt; 6

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence:NEMO binding  
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&lt;400&gt; 45

Leu Asp Trp Glu Trp Leu  
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&lt;210&gt; 46

&lt;211&gt; 11

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence:NEMO binding  
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<213> Artificial Sequence

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<223> Description of Artificial Sequence:NEMO binding  
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<223> Description of Artificial Sequence:NEMO binding  
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<223> Description of Artificial Sequence:NEMO binding  
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<223> Description of Artificial Sequence:NEMO binding  
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<223> Description of Artificial Sequence:NEMO binding  
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<223> Description of Artificial Sequence:NEMO binding  
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<210> 54

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<223> Description of Artificial Sequence:NEMO binding  
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<223> Description of Artificial Sequence:NEMO binding  
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<210> 56

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<212> PRT

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<210> 57

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<210> 58

<211> 9

<212> PRT

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Leu Asp Trp Ser Trp Ala Gln Thr Glu  
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<210> 59

<211> 8

<212> PRT

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<210> 63  
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<210> 66
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<212> PRT  
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<400> 68

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<210> 71

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<212> PRT

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<400> 71

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<211> 9

<212> PRT

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<223> Description of Artificial Sequence:NEMO binding

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&lt;210&gt; 73

&lt;211&gt; 6

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence:NEMO binding  
sequence

&lt;400&gt; 73

Ala Asp Trp Ser Trp Ala  
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&lt;210&gt; 74

&lt;211&gt; 10

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence:NEMO binding  
sequence

&lt;400&gt; 74

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&lt;210&gt; 75

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence:NEMO binding  
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&lt;400&gt; 75

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&lt;210&gt; 76

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence:NEMO binding  
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Ala Ala Asp Trp Ser Trp Ala Gln Thr

1 5

<210> 77  
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 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence:NEMO binding  
 sequence

<400> 77  
 Ala Asp Trp Ser Trp Ala Gln  
 1 5

<210> 78  
 <211> 8  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence:NEMO binding  
 sequence

<400> 78  
 Ala Asp Trp Ser Trp Ala Gln Thr  
 1 5

<210> 79  
 <211> 11  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence:NEMO binding  
 sequence

<400> 79  
 Thr Ala Leu Asp Phe Ser Trp Leu Gln Thr Glu  
 1 5 10

<210> 80  
 <211> 9  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence:NEMO binding  
 sequence

<400> 80  
 Leu Asp Phe Ser Trp Leu Gln Thr Glu  
 1 5

<210> 81

<211> 8  
 <212> PRT  
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:NEMO binding  
 sequence

<400> 81

Thr Ala Leu Asp Phe Ser Trp Leu  
 1 5

<210> 82  
 <211> 10  
 <212> PRT  
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:NEMO binding  
 sequence

<400> 82

Ala Leu Asp Phe Ser Trp Leu Gln Thr Glu  
 1 5 10

<210> 83  
 <211> 9  
 <212> PRT  
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:NEMO binding  
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<400> 83

Leu Asp Phe Ser Trp Leu Gln Thr Glu  
 1 5

<210> 84  
 <211> 6  
 <212> PRT  
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:NEMO binding  
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<400> 84

Leu Asp Phe Ser Trp Leu  
 1 5

<210> 85  
 <211> 10  
 <212> PRT  
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:NEMO binding  
sequence

<400> 85

Thr Ala Leu Asp Phe Ser Trp Leu Gln Thr  
1 5 10

<210> 86

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:NEMO binding  
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<400> 86

Thr Ala Leu Asp Phe Ser Trp Leu Gln  
1 5

<210> 87

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:NEMO binding  
sequence

<400> 87

Ala Leu Asp Phe Ser Trp Leu Gln Thr  
1 5

<210> 88

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:NEMO binding  
sequence

<400> 88

Leu Asp Phe Ser Trp Leu Gln  
1 5

<210> 89

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:NEMO binding  
sequence

<400> 89

Leu Asp Phe Ser Trp Leu Gln Thr  
 1 5

<210> 90  
 <211> 11  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence:NEMO binding  
 sequence

<400> 90  
 Thr Ala Leu Asp Tyr Ser Trp Leu Gln Thr Glu  
 1 5 10

<210> 91  
 <211> 9  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence:NEMO binding  
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<400> 91  
 Leu Asp Tyr Ser Trp Leu Gln Thr Glu  
 1 5

<210> 92  
 <211> 8  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence:NEMO binding  
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<400> 92  
 Thr Ala Leu Asp Tyr Ser Trp Leu  
 1 5

<210> 93  
 <211> 10  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence:NEMO binding  
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<400> 93  
 Ala Leu Asp Tyr Ser Trp Leu Gln Thr Glu  
 1 5 10

<210> 94  
 <211> 9  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence:NEMO binding  
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<400> 94  
 Leu Asp Tyr Ser Trp Leu Gln Thr Glu  
 1 5

<210> 95  
 <211> 6  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence:NEMO binding  
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<400> 95  
 Leu Asp Tyr Ser Trp Leu  
 1 5

<210> 96  
 <211> 10  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence:NEMO binding  
 sequence

<400> 96  
 Thr Ala Leu Asp Tyr Ser Trp Leu Gln Thr  
 1 5 10

<210> 97  
 <211> 9  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence:NEMO binding  
 sequence

<400> 97  
 Thr Ala Leu Asp Tyr Ser Trp Leu Gln  
 1 5

<210> 98  
 <211> 9  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence:NEMO binding  
 sequence

<400> 98  
 Ala Leu Asp Tyr Ser Trp Leu Gln Thr  
     1                    5

<210> 99  
 <211> 7  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence:NEMO binding  
 sequence

<400> 99  
 Leu Asp Tyr Ser Trp Leu Gln  
     1                    5

<210> 100  
 <211> 8  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence:NEMO binding  
 sequence

<400> 100  
 Leu Asp Tyr Ser Trp Leu Gln Thr  
     1                    5

<210> 101  
 <211> 11  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence:NEMO binding  
 sequence

<400> 101  
 Thr Ala Leu Asp Trp Ala Trp Leu Gln Thr Glu  
     1                    5                    10

<210> 102  
 <211> 9  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence:NEMO binding  
 sequence

<400> 102



Leu Asp Trp Ala Trp Leu Gln Thr Glu  
 1 5

<210> 103  
 <211> 8  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence:NEMO binding  
 sequence

<400> 103  
 Thr Ala Leu Asp Trp Ala Trp Leu  
 1 5

<210> 104  
 <211> 10  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence:NEMO binding  
 sequence

<400> 104  
 Ala Leu Asp Trp Ala Trp Leu Gln Thr Glu  
 1 5 10

<210> 105  
 <211> 9  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence:NEMO binding  
 sequence

<400> 105  
 Leu Asp Trp Ala Trp Leu Gln Thr Glu  
 1 5

<210> 106  
 <211> 6  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence:NEMO binding  
 sequence

<400> 106  
 Leu Asp Trp Ala Trp Leu  
 1 5

<210> 107

<211> 10  
 <212> PRT  
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:NEMO binding  
 sequence

<400> 107

Thr Ala Leu Asp Trp Ala Trp Leu Gln Thr  
       1                      5                      10

<210> 108

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:NEMO binding  
 sequence

<400> 108

Thr Ala Leu Asp Trp Ala Trp Leu Gln  
       1                      5

<210> 109

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:NEMO binding  
 sequence

<400> 109

Ala Leu Asp Trp Ala Trp Leu Gln Thr  
       1                      5

<210> 110

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:NEMO binding  
 sequence

<400> 110

Leu Asp Trp Ala Trp Leu Gln  
       1                      5

<210> 111

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:NEMO binding  
sequence

<400> 111  
Leu Asp Trp Ala Trp Leu Gln Thr  
1 5

<210> 112  
<211> 11  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:NEMO binding  
sequence

<400> 112  
Thr Ala Leu Asp Trp Glu Trp Leu Gln Thr Glu  
1 5 10

<210> 113  
<211> 9  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:NEMO binding  
sequence

<400> 113  
Leu Asp Trp Glu Trp Leu Gln Thr Glu  
1 5

<210> 114  
<211> 8  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:NEMO binding  
sequence

<400> 114  
Thr Ala Leu Asp Trp Glu Trp Leu  
1 5

<210> 115  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:NEMO binding  
sequence

<400> 115  
Ala Leu Asp Trp Glu Trp Leu Gln Thr Glu

1	5	10
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<210> 116  
 <211> 9  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence:NEMO binding  
 sequence

<400> 116  
 Leu Asp Trp Glu Trp Leu Gln Thr Glu  
 1 5

<210> 117  
 <211> 6  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence:NEMO binding  
 sequence

<400> 117  
 Leu Asp Trp Glu Trp Leu  
 1 5

<210> 118  
 <211> 10  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence:NEMO binding  
 sequence

<400> 118  
 Thr Ala Leu Asp Trp Glu Trp Leu Gln Thr  
 1 5 10

<210> 119  
 <211> 9  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence:NEMO binding  
 sequence

<400> 119  
 Thr Ala Leu Asp Trp Glu Trp Leu Gln  
 1 5

<210> 120  
 <211> 9

<212> PRT  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence:NEMO binding  
 sequence  
  
 <400> 120  
 Ala Leu Asp Trp Glu Trp Leu Gln Thr  
   1                  5  
  
  
 <210> 121  
 <211> 7  
 <212> PRT  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence:NEMO binding  
 sequence  
  
 <400> 121  
 Leu Asp Trp Glu Trp Leu Gln  
   1                  5  
  
  
 <210> 122  
 <211> 8  
 <212> PRT  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence:NEMO binding  
 sequence  
  
 <400> 122  
 Leu Asp Trp Glu Trp Leu Gln Thr  
   1                  5  
  
  
 <210> 123  
 <211> 7  
 <212> PRT  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence:membrane  
 translocation domain  
  
 <400> 123  
 Arg Arg Met Lys Trp Lys Lys  
   1                  5  
  
  
 <210> 124  
 <211> 11  
 <212> PRT  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence:membrane

## translocation domain

&lt;400&gt; 124

Tyr Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg  
 1 5 10

&lt;210&gt; 125

&lt;211&gt; 11

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence:membrane  
 translocation domain

&lt;400&gt; 125

Tyr Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg  
 1 5 10

&lt;210&gt; 126

&lt;211&gt; 11

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence:membrane  
 translocation domain

&lt;400&gt; 126

Tyr Ala Arg Lys Ala Arg Arg Gln Ala Arg Arg  
 1 5 10

&lt;210&gt; 127

&lt;211&gt; 11

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence:membrane  
 translocation domain

&lt;400&gt; 127

Tyr Ala Arg Lys Ala Arg Arg Gln Ala Arg Arg  
 1 5 10

&lt;210&gt; 128

&lt;211&gt; 11

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence:membrane  
 translocation domain

&lt;400&gt; 128

Tyr Ala Arg Ala Ala Arg Arg Ala Ala Arg Arg  
 1 5 10

<210> 129  
 <211> 11  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence:membrane  
 translocation domain

<400> 129  
 Tyr Ala Arg Ala Ala Arg Arg Ala Ala Arg Arg  
     1                    5                    10

<210> 130  
 <211> 7  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence:membrane  
 translocation domain

<400> 130  
 Arg Arg Met Lys Trp Lys Lys  
     1                    5

<210> 131  
 <211> 18  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial  
 Sequence:anti-inflammatory compound

<400> 131  
 Arg Arg Met Lys Trp Lys Lys Thr Ala Leu Asp Trp Ser Trp Leu Gln  
     1                    5                    10                    15

Thr Glu

<210> 132  
 <211> 11  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial  
 Sequence:anti-inflammatory compound

<400> 132  
 Thr Ala Leu Asp Trp Ser Trp Leu Gln Thr Glu  
     1                    5                    10

<210> 133  
 <211> 22  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial  
 Sequence:anti-inflammatory compound

<400> 133  
 Tyr Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg Thr Ala Leu Asp Trp  
     1                    5                    10                    15  
 Ser Trp Leu Gln Thr Glu  
                     20

<210> 134  
 <211> 22  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial  
 Sequence:anti-inflammatory compound

<400> 134  
 Tyr Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg Thr Ala Leu Asp Trp  
     1                    5                    10                    15  
 Ser Trp Leu Gln Thr Glu  
                     20

<210> 135  
 <211> 18  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial  
 Sequence:anti-inflammatory compound

<400> 135  
 Arg Arg Arg Arg Arg Arg Arg Thr Ala Leu Asp Trp Ser Trp Leu Gln  
     1                    5                    10                    15  
 Thr Glu

<210> 136  
 <211> 18  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial  
 Sequence:anti-inflammatory compound



&lt;400&gt; 136

Arg Arg Arg Arg Arg Arg Arg Thr Ala Leu Asp Trp Ser Trp Leu Gln  
 1 5 10 15

Thr Glu

&lt;210&gt; 137

&lt;211&gt; 22

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial  
 Sequence:anti-inflammatory compound

&lt;400&gt; 137

Tyr Ala Arg Lys Ala Arg Arg Gln Ala Arg Arg Thr Ala Leu Asp Trp  
 1 5 10 15

Ser Trp Leu Gln Thr Glu  
 20

&lt;210&gt; 138

&lt;211&gt; 22

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial  
 Sequence:anti-inflammatory compound

&lt;400&gt; 138

Tyr Ala Arg Lys Ala Arg Arg Gln Ala Arg Arg Thr Ala Leu Asp Trp  
 1 5 10 15

Ser Trp Leu Gln Thr Glu  
 20

&lt;210&gt; 139

&lt;211&gt; 22

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial  
 Sequence:anti-inflammatory compound

&lt;400&gt; 139

Tyr Ala Arg Ala Ala Arg Arg Ala Ala Arg Arg Thr Ala Leu Asp Trp  
 1 5 10 15

Ser Trp Leu Gln Thr Glu  
 20

&lt;210&gt; 140

<211> 11  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial  
 Sequence:anti-inflammatory compound

<400> 140  
 Thr Ala Leu Asp Trp Ser Trp Leu Gln Thr Glu  
 1 5 10

<210> 141  
 <211> 17  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial  
 Sequence:anti-inflammatory compound

<400> 141  
 Tyr Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg Leu Asp Trp Ser Trp  
 1 5 10 15

Leu

<210> 142  
 <211> 17  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial  
 Sequence:anti-inflammatory compound

<400> 142  
 Tyr Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg Leu Asp Trp Ser Trp  
 1 5 10 15

Leu

<210> 143  
 <211> 13  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial  
 Sequence:anti-inflammatory compound

<400> 143  
 Arg Arg Met Lys Trp Lys Lys Leu Asp Trp Ser Trp Leu  
 1 5 10

<210> 144  
 <211> 13  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial  
 Sequence:anti-inflammatory compound

<400> 144  
 Arg Arg Met Lys Trp Lys Lys Leu Asp Trp Ser Trp Leu  
 1 5 10

<210> 145  
 <211> 13  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial  
 Sequence:anti-inflammatory compound

<400> 145  
 Arg Arg Arg Arg Arg Arg Leu Asp Trp Ser Trp Leu  
 1 5 10

<210> 146  
 <211> 17  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial  
 Sequence:anti-inflammatory compound

<400> 146  
 Tyr Ala Arg Ala Ala Arg Arg Ala Ala Arg Arg Leu Asp Trp Ser Trp  
 1 5 10 15

Leu

<210> 147  
 <211> 17  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial  
 Sequence:anti-inflammatory compound

<400> 147  
 Tyr Ala Arg Ala Ala Arg Arg Ala Ala Arg Arg Leu Asp Trp Ser Trp  
 1 5 10 15

Leu

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<210> 148
<211> 13
<212> PRT
<213> Artificial Sequence
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<220>
<223> Description of Artificial
      Sequence:anti-inflammatory compound
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<400> 148  
Arg Arg Arg Arg Arg Arg Arg Leu Asp Trp Ser Trp Leu  
1 5 10

```
<210> 149
<211> 6
<212> PRT
<213> Artificial Sequence
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<220>
<223> Description of Artificial
Sequence:mebrane translocation domain
```

```
<400> 149
Arg Arg Arg Arg Arg Arg
      1             5
```

```
<210> 150
<211> 7
<212> PRT
<213> Artificial Sequence
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<220>
<223> Description of Artificial
      Sequence:mebrane translocation domain
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<400> 150  
Arg Arg Arg Arg Arg Arg Arg  
1 5

```
<210> 151
<211> 8
<212> PRT
<213> Artificial Sequence
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<220>
<223> Description of Artificial
      Sequence:mebrane translocation domain
```

```
<400> 151
Arg Arg Arg Arg Arg Arg Arg Arg
  1             5
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$$\begin{array}{ll} \langle 210 \rangle & 152 \\ \langle 211 \rangle & 9 \end{array}$$

<212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial  
 Sequence: mebrane translocation domain

<400> 152  
 Arg Arg Arg Arg Arg Arg Arg Arg Arg  
 1 5

<210> 153  
 <211> 10  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial  
 Sequence:mebrane translocation domain

<400> 153  
 Arg Arg Arg Arg Arg Arg Arg Arg Arg Arg  
 1 5 10

<210> 154  
 <211> 11  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial  
 Sequence:mebrane translocation domain

<400> 154  
 Arg Arg Arg Arg Arg Arg Arg Arg Arg Arg Arg  
 1 5 10

<210> 155  
 <211> 6  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial  
 Sequence:mebrane translocation domain

<400> 155  
 Arg Arg Arg Arg Arg  
 1 5

<210> 156  
 <211> 7  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial  
 Sequence:mebrane translocation domain

<400> 156  
 Arg Arg Arg Arg Arg Arg  
 1 5

<210> 157  
 <211> 8  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial  
 Sequence:mebrane translocation domain

<400> 157  
 Arg Arg Arg Arg Arg Arg Arg Arg  
 1 5

<210> 158  
 <211> 9  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial  
 Sequence:mebrane translocation domain

<400> 158  
 Arg Arg Arg Arg Arg Arg Arg Arg Arg  
 1 5

<210> 159  
 <211> 10  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial  
 Sequence:mebrane translocation domain

<400> 159  
 Arg Arg Arg Arg Arg Arg Arg Arg Arg  
 1 5 10

<210> 160  
 <211> 11  
 <212> PRT  
 <213> Artificial Sequence

<220>

<223> Description of Artificial  
Sequence:mebrane translocation domain

<400> 160

Arg Arg Arg Arg Arg Arg Arg Arg Arg Arg Arg  
1 5 10

<210> 161

<211> 20

<212> PRT

<213> Artificial sequence

<220>

<223> NEMO binding domain fused with mebrane  
translocation domain

<221> VARIANT

<222> 1

<223> Xaa = H

<221> VARIANT

<222> 20

<223> Xaa = NH2

<400> 161

Xaa Arg Arg Met Lys Trp Lys Lys Thr Ala Leu Asp Trp Ser Trp Leu  
1 5 10 15  
Gln Thr Glu Xaa  
20

<210> 162

<211> 24

<212> PRT

<213> Artificial sequence

<220>

<223> NEMO binding domain fused with mebrane  
translocation domain

<221> VARIANT

<222> 1

<223> Xaa = H

<221> VARIANT

<222> 24

<223> Xaa = NH2

<400> 162

Xaa Tyr Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg Thr Ala Leu Asp  
1 5 10 15  
Trp Ser Trp Leu Gln Thr Glu Xaa  
20

<210> 163

<211> 20

<212> PRT

<213> Artificial sequence

<220>  
 <223> NEMO binding domain fused with mebrane  
 translocation domain  
  
 <221> VARIANT  
 <222> 1  
 <223> Xaa = H  
  
 <221> VARIANT  
 <222> 20  
 <223> Xaa = NH2  
  
 <400> 163  
 Xaa Arg Arg Arg Arg Arg Arg Arg Thr Ala Leu Asp Trp Ser Trp Leu  
 1 5 10 15  
 Gln Thr Glu Xaa  
 20  
  
 <210> 164  
 <211> 24  
 <212> PRT  
 <213> Artificial sequence  
  
 <220>  
 <223> NEMO binding domain fused with mebrane  
 translocation domain  
  
 <221> VARIANT  
 <222> 1  
 <223> Xaa = H  
  
 <221> VARIANT  
 <222> 24  
 <223> Xaa = NH2  
  
 <400> 164  
 Xaa Tyr Ala Arg Lys Ala Arg Arg Gln Ala Arg Arg Thr Ala Leu Asp  
 1 5 10 15  
 Trp Ser Trp Leu Gln Thr Glu Xaa  
 20  
  
 <210> 165  
 <211> 24  
 <212> PRT  
 <213> Artificial sequence  
  
 <220>  
 <223> NEMO binding domain fused with mebrane  
 translocation domain  
  
 <221> VARIANT  
 <222> 1  
 <223> Xaa = H  
  
 <221> VARIANT  
 <222> 24  
 <223> Xaa = NH2



<400> 165

Xaa Tyr Ala Arg Ala Ala Arg Arg Ala Ala Arg Arg Thr Ala Leu Asp  
 1 5 10 15  
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